

NEWSLINE

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FROM THE
DIRECTOR'S
OFFICE

David Cooper

Lab balances science with computer security

Since April 1999, all three of DOE's national-security laboratories have been working hard to significantly improve the protection of our classified and unclassified computing resources. Much of this effort has been driven by the "nine action items" that were associated with the first "security stand-down" approximately 18 months ago. At Livermore, our Computer Security and Information Architecture personnel have incorporated the milestones associated with the nine action items into the LLNL security architecture and developed an implementation plan that was completed on March 1 when the LLNL firewall system was activated.



LLNL's proactive approach

Completing the implementation of DOE's "nine action items" was the first step in an ongoing effort to provide a world-class research and development environment that enables the scientific and technological missions at LLNL without sacrificing its intellectual property or compromising sensitive information.

During the past year, we have been working with DOE, Los Alamos, and Sandia to improve the protection of our computer resources and the information they contain. This work has followed naturally from our local efforts over the past three years to develop a well-planned Information Architecture (IA) to integrate our computing functionality and security needs. It has been our strategy to guide our efforts not only to comply with DOE orders, but also to proactively determine the computer-security needs of our institution and build the necessary computer security practices and technologies into our infrastructure.

I have just approved an updated version of the architectural plan for unclassified computer security, "IA-0401: Unclassified Computer and Network Security Architecture." This document, having completed the "request for comment" (RFC) process, is now an IA standard. It is available at: <http://www.llnl.gov/projects/ia/standards/ia0401/ia0401.html>

The successful implementation of the security architecture will require LLNL to achieve certain technical and administrative objectives. To this end, funding for institu-

See **DIRECTOR'S OFFICE**, page 7

Lab succeeds in implementing ISM

The LLNL Integrated Safety Management System has been verified as being effectively implemented, a DOE review team informed Laboratory management yesterday afternoon.

The positive report is the culmination of a three-year program by the Lab to institute ISM throughout the organization.

Jim Winter, head of the DOE Verification Team, reported the team's decision during a presentation Thursday afternoon. According to Deputy Director for Operations Bob Kuckuck, the decision validates the Laboratory's commitment to meet the DOE's requirement that all sites have ISM in place and verified by Sept. 30.

According to the Verification Team Final Report, "LLNL has demonstrated a consistent, top-to-bottom commitment to develop and implement a satisfactory ISM system." The report also states the ISMS is adequately implemented in Laboratory organizations from the associate directorate level to the facility level, and on to activity levels.

"ISM is evident in the culture of LLNL" Winter said in introductory remarks. "What we saw was the expansion of the culture downward and across the organization. LLNL has demonstrated a commitment to excellence with

See **ISM**, page 8

Lab blows lid off waste inspection with R&D 100

By Ali Carrigan

NEWSLINE STAFF WRITER

Ten years ago, a group of Lab employees led by Harry Martz, Pat Roberson and retiree David Camp were convinced that they could come up with a better way to determine the contents of radioactive waste barrels.

The fruits of their labor finally paid off as their project, Waste Inspection Tomography Nondestructive Assay (WIT-NDA), won the only R&D Top 100 Award given to a Lab project this year.

The problem was a pressing one — once barrels containing waste were sealed, it was impossible to classify them for treatment and disposal. Enter Martz and Roberson, a physicist and an engineer, respectively.

"We were working in Engineering's Nondestructive Evaluation Section at the time," Martz recalled. "And we were convinced that we could come up with a better way to seek out



The Waste Inspection Tomography Nondestructive Assay won an R&D 100 for its ability to provide safer alternatives to inspecting waste drums for contamination.

radioactivity in the barrels in support of the Environmental Management program at DOE."

Old techniques simply measured an integrated attenuation of the matrix and amount of radiation

See **R&D 100**, page 8

'Science 2001' lecture series ready for liftoff

For the second year in a row, the Laboratory will present a series of scientific lectures for the public, entitled "Science 2001." The series kicks off Thursday, Sept. 28 with a lecture on "Space Technology," by Aprille Ericsson-Jackson of the NASA Goddard Space Flight Center

The series is designed to address current topics in science and strives to make those concepts accessible and understandable to members of the

community. Scientists will lecture on a wide range of subjects, from futuristic space technology to work being done on the Human Genome Project. Topics also include a look at the origins of the San Francisco Bay, and a talk on El Nino and global climate change.

"We enjoy hosting these lectures as a small

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Shedding light
on power cutbacks

— Page 3



Mean machines
roll into Lab

— Page 5



LAB COMMUNITY NEWS

Weekly Calendar

Technical Meeting Calendar, page 4

Tuesday
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The **LLESA Apple Computer Networking Group** will meet at 7 p.m. in the LLNL Visitor Center auditorium. Everyone with an interest in Apple brand and compatible computers is welcome to attend. Contact: Jim Branum, 2-6766.



George Van Tiem, group leader for **Emergency Management & Response at Los Alamos National Laboratory** will be at the

Lab to talk about the recent fire on Tuesday, Oct. 3, at 2 p.m. in the Bldg. 543 auditorium. The talk is open to anyone interested in hearing an overview of what happened and how Los Alamos responded.

...

A few openings are still available for the afternoon session of the **“Basic Investment Planning and Savings Workshop”** (PS8021) offered by the Benefits Office on Oct. 3. This half-day workshop will provide participants with information to assess the risks and potential rewards associated with a wide range of investment choices. Cost is \$45; seating is limited. To register for this course or other Benefits Office workshops, visit the Webpage at <http://www.llnl.gov/jobs/benefits> and click on Workshop Registration, or call the Training Center at 4-3849.

...

Los Alamos Director John Browne will speak on “Science and Security: Challenges for the New Century” at the Commonwealth Club of California next month. The event takes place at 7 p.m. Tuesday, Oct. 3, at the Leshner Theater at the Regional Center for the Arts, 1601 Civic Drive, Walnut Creek. Tickets are \$12 for members and Contra Costa Times subscribers; \$16 for non-members. For reservations call (415) 597-6750/6706 or (925) 943-7469.

...

B Division’s fall book sale returns Oct. 9-13, 11:30 a.m. to 1:30 p.m., in Bldg. 132, room 1200 (Q- or L-cleared access only). Used books, videos, CDs and books-on-tape are needed; all proceeds are used to buy Christmas gifts for needy children. A collection box is available in the lobby of Bldg. 132. Contact: Lynn Groves, 2-1684.

...

Health Services is sponsoring a new support group for **parents of at-risk teens**. The group will meet on the first and third Fridays of each month, from noon to 1 p.m., in the Bldg. 663 conference room.

Walk for diabetes cure

A Lab team of walkers is organizing for the Juvenile Diabetes Walk to Cure Diabetes to help raise funds to cure a disease that affects more than 16 million people in the United States.

The walk begins at 9 a.m. on Sunday, Oct. 15, at Bishop Ranch Business Park.

Contact Lori Taylor in Community Relations at 2-3138 if you are interested in walking or for more information.

Event planned to remember Roger Batzel

All Laboratory employees are invited to attend a commemoration in honor of Director Emeritus Roger Batzel on Saturday, Sept. 30, at 10 a.m. in the West Cafeteria.

The event will be a remembrance of the Laboratory’s sixth director, his tenure and impact on the Lab. A reception will follow. People who will be attending should RSVP to Sheryl Rikard, 3-0614, or Patti Carter, 2-7401, by Monday, Sept. 25.

Batzel, who served as director from 1971-88, more than one-third of the Laboratory’s history, is credited with playing an important role in the growth and transition of the Lab from a defense and nuclear facility to a multi-program institution.

Among his many honors, he was a fellow of the American Physical Society, a fellow of the American Association for the Advancement of Science, and a recipient of one of the Department



of Energy’s highest awards, the Distinguished Associate Award.

Batzel died on July 29, after a massive heart attack. More information about Batzel is available on line at the following Public Affairs Websites: www.llnl.gov/PAO/Newsstand/articles/2000/8-04-00-batzel.html and www.llnl.gov/llnl/06news/NewsMedia/Batzelcap.html

Lab team to join heart walk

A team of Lab employees will join the American Heart Walk in honor of former director Roger Batzel. The walk is sponsored by the American Heart Association and raises money to fight heart disease and stroke.

LLNL employees, their families and friends are invited to be a part of the LLNL team and participate in this event on Oct. 1, from 8:30-11:30 a.m. in Walnut Creek at Heather Farm Park.

Contact Pat Davis at 2-6408 for more details.

Flu vaccine clinics delayed this year due to shortages

A nationwide flu vaccine supply shortage will delay the Lab Health Services’ annual flu vaccine clinic until at least mid-November.

Depending upon availability of vaccine, Health Services may need to limit the vaccine offer to employees at high risk.

“We are not sure when or how many doses we will receive this year,” said James Seward, medical director for Health Services. “Every effort is being made to receive sufficient supplies as in past years. However, if only a very small supply is received, we will reserve the available vaccine for individuals at highest risk of developing complications if they were to have the flu.”

Health Services will make an announcement

about the flu vaccine clinic as soon as it receives updated information, Seward said.

Potential alternates for receiving a flu shot include employees’ health care providers, county health care offices and commercial or retail organizations such as drug stores and supermarkets, although the vaccine shortage will impact their capabilities as well.

There is a nationwide shortage of flu vaccine because some manufacturers have reported difficulties in growing the three influenza virus components this year. Additionally, two of the four companies licensed to distribute the vaccine in the United States are experiencing manufacturing problems, according to the Centers for Disease Control.

IN MEMORIAM

Peter Micheli

Peter Andre Micheli, a mechanical technician in Engineering, died Sept. 14 in Livermore. He was 87.

Micheli worked for more than 22 years in the Mechanical Engineering Department and Research Engineering Division. He retired in 1975.

A native of Sonora, Micheli served in the Army during World War II and was a resident of Livermore for 85 years. He attended Trinidad Junior College and was a member of the Livermore-Pleasanton Rod and Gun Club, Fraternal Order of Eagles 609, and St. Michael’s church. He enjoyed hunting, fishing and travel.

He is survived by his sister, Mary, a sister-in-law, four nieces and two nephews. His wife, Beryl, died in 1995.

Contributions in his memory may be made to Hope Hospice, 6500 Dublin Blvd., Suite 100, Dublin, 94568.

Howard Weigt

Services have been held for Howard Karl Weigt, who died Sept. 5 at Valley Care Medical Center in Pleasanton. He was 72.

Weigt served in the Navy from 1945-47. He was a machinist and welder, working first for Aerojet General, a manufacturer of rocket engines. Later he worked as a vacuum technician for Energy Systems Engineering at the Lab. He retired in 1993.

Weigt was a resident of Pleasanton for 33 years. He was a member of the Alameda County Sheriff’s Underwater Rescue Unit from 1971-72.

He is survived by his wife, Rosemary; a son, George; daughters, Patricia and Susan, a sister and seven grandchildren.

Contributions in his memory may be made to the American Cancer Society, 7000 Village Parkway, Suite L, Dublin, 94568.

Newsline

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AROUND THE LAB

Conserving energy essential during heat wave

California’s power shortages have been in the news throughout the summer. On several occasions, the most recent being this week, the Laboratory has been asked to voluntarily reduce consumption of electrical power.

Hot weather throughout the state has strained the limits of generating capacity. Plant Engineering (PE) reminds all employees of the importance of energy conservation and Labwide contingency plans to address potential electrical outages at the Laboratory.

Two external organizations impact electrical power continuity at the Laboratory. The California Independent System Operator (CAISO) organization is the state coordinator for California utilities, while the Western Area Power Administration is the principal provider of electricity to the Lab.

The two organizations are interdependent with respect to coordinating power delivery throughout the state and to the Lab.

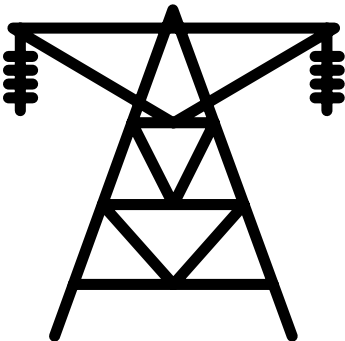
The potential for an imminent outage at the Laboratory would be if one particular piece of equipment in the Western transmission system fails or becomes overloaded, resulting in a mandatory reduction of power at the Lab by 30 percent.

CAISO is responsible for the forecasting of electrical load for the state. “If CAISO determines that the system load vs. capacity margin is too low, they declare an electrical emergency and request all customers to curtail use of electricity,” explained Meredith Erickson, a group leader in PE’s Site Utilities Division. These emergencies, classified as Stage 1, Stage 2 and Stage 3, request voluntary cutbacks in the use of electricity.

Stages of electrical emergency

Stage 1 and 2 announcements have been made at the Laboratory several times during the summer. “Employee and facility responses have been excellent,” said PE Acting Department Head Bernie Mattimore. “Typically, a 6 percent reduction happens within 30 minutes after a Stage 1 announcement, and up to a 10 percent reduction happens after a Stage 2 announcement.

CAISO is forecasting the likelihood of a Stage 3 electrical emergency during current hot weather patterns. Should a Stage 3 electrical emergency be declared, PG&E and other local utilities may begin “rotating blackouts” (power is turned off in selected areas for two to four hours at a time). “Neither LLNL’s main location nor Site 300 are subject to these rotating blackouts,”



emphasized Erickson.

For a Stage 3 alert, employees will be notified that electrical utilities within the area will begin rotating blackouts. While the blackouts are not expected at the Lab, employees will be asked to reduce electricity usage even further. Stage 3 emergencies usually end at 8 p.m. unless otherwise advised.

Stage 3 is a voluntary electrical load curtailment on the part of the Laboratory. This is a clarification by CAISO from guidance provided earlier in the year, when Stage 3 was thought to require mandatory power usage reductions.

“There is no need to shut down any critical programmatic equipment or send anyone home for a Stage 3 electrical emergency,” said Mattimore. “Any additional reduction in usage of electricity will be greatly appreciated. Every reduction helps.”

Based on past practice, a Stage 3 alert will likely be issued by the CAISO sometime after 2 p.m.

“Building coordinators or facility points of contact (FPOCs) have worked with PE to determine possible non-essential electrical use items,” noted Erickson. These include lighting, appliances, radios, computers not in use, fans, room/window air conditioners, coffee pots, portable electric heaters, etc., that can be turned off in facilities. Reduction of water usage also helps, since pumps use electricity.

“In addition,” Erickson said, “building coordinators and FPOCs will evaluate ‘programmatic’ equipment that is not actively being used and could be shut down during a declared electrical emergency.”

Thermostat adjustments

FPOCs must be contacted before adjusting the thermostat in work areas, since some buildings have systems that chill the air for large areas and then re-heat it to condition it for offices and labs. Turning the thermostat up actually increases usage of electricity due to the heaters coming on to raise the air temperature.

While CAISO’s Stage 1, 2 or 3 emergencies should not result in a Labwide power outage, there is a condition at Western’s Tracy substation that could have this result. A multi-million dollar transformer at that location can overload under certain conditions. To save that transformer,

Western (and other utilities) will interrupt electrical power load up and down the Central Valley.

The Laboratory is committed to reduce load by 30 percent (approximately 16 megawatts) to help avoid catastrophic failure of this critical transformer.

“If we fail to reduce load, Western will turn off all main site power. The probability of the event occurring is extremely low,” said Mattimore, “but the Lab must be prepared should the situation arise.”

For a mandatory load reduction request, every facility has a responsibility to reduce electrical usage. Since each facility is unique, a separate plan for power reduction should be in place at each facility.

In the event that the facilities’ efforts are not timely or not sufficient, directorate facility managers and PE’s Site Utilities Division will implement one of two contingency plans, a 60 or a 10-minute plan, based on the amount of advance notification to the Lab, should this power shut down occur. “The plans focus on maintaining power supply to critical buildings and systems such as NIF, security and ES&H, which means others would have to be dropped,” said Erickson.

Building coordinators, FPOCs, or facility managers should be contacted for information on how this could affect specific work areas.

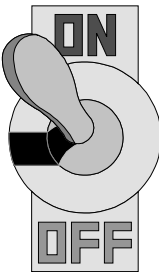
Emergency leave

Associate directors have the responsibility for determining when the power curtailment level does not allow performance of employee duties in a facility or elsewhere, and can authorize paid emergency leave.

Emergency leave account usage associated with any power-related shutdown will be applied consistent with the Laboratory’s Personnel Policies and Procedures Section G.VI.4 and Section L.IV.2.1 and L.IV.2.2. Questions about the emergency leave account usage may be directed to each respective employment representative.

Arrangements have been made with Procurement to contact Johnson Controls personnel and other contractor personnel working on site in facilities without power during these emergencies. The contractor personnel will be managed per contract language.

“Previous voluntary power reductions have been noteworthy enough to have been reported in local news stories and brought to the attention of a White House task force,” said Mattimore. “We will need the same high level of employee and facility management cooperation to successfully implement electrical curtailment plans, if necessary, to minimize the impact on critical Laboratory operations.”



Deadline looms for some Family Days visitors

Today is the last day to turn in the blue entry cards that will allow foreign nationals to visit during the Lab’s Family Days, Oct. 21 and 22.

Employees who hold a Q- and L-cleared Laboratory badge may bring up to 10 family members or guests each day. However, DOE approval is required for those who are not U.S. citizens. Blue entry cards are available from directorate offices; Don Carlson of the Information and Security Awareness Group, 3-9135; or at the Westgate Badge Office, Bldg. 71. The cards must be completed and returned to Carlson at L-504 no later than the close of business today (Sept. 22).

In addition, all non-U.S. citizens who enter Family Days will be required to show a passport or alien registration card upon entrance to the Laboratory — through the West Gate only — the day they attend. Blue entry cards are also required for Q- and L-cleared employees who will be bringing in a P-cleared foreign national employee during Family Days.

Entry forms will also be required for the family members and friends of all Q- and L-cleared persons. These are now available on the Grapevine, <http://www-r.llnl.gov/family2000/>. These white entry forms will be turned in as employees enter with their guests on Family Days. The form will also be available from program security representatives.

Employees who hold a regularly issued P Laboratory badge must make arrangements through their group or division leader for a Q- or L-badged escort to accompany the P-cleared employee and any family members or guests. Between the employee and escort, the total number of family members or guests must not exceed 10.

For more information on the entry cards and forms, gaining entrance for family members and guests or general information on Family Days, see the Web at <http://www-r.llnl.gov/family2000/>

Technology Today

The five most recent segments of the Lab’s community television show, “Technology Today,” will be aired on Lab TV channel 4 for two weeks, beginning Tuesday, Sept. 26.

The show, a collaboration between LLNL and Sandia, is shown on CTV Channel 30, which airs in Livermore and Pleasanton.

Beginning Tuesday, the five shows will air at the following times daily:

- “Community Survey,” will air at 10 a.m., 1 and 4 p.m.;
- “Tri-Valley Science & Engineering Fair,” will be shown at 10:30 a.m., 1:30 and 4:30 p.m.;
- “Mapping the Human Genome,” will air at 11 a.m., 2 and 5 p.m.;
- “Science & Technology Education Program,” will be on at 11:30 a.m., 2:30 and 5:30 p.m., and,
- “High Performance Computing,” will air at noon, 3 and 6 p.m.



NEWS YOU CAN USE

Still time to sign up, present at ‘LLNL 2020’

Signups are still available for “LLNL 2020: Women Forging the Future of Science and Technology.” The two-day conference will take place Thursday and Friday, Oct. 26–27, at the San Ramon Marriott. Registration for the event, which is considered training under the Lab’s new guidelines, is open until Sept. 29, and the cost to attend is \$250 dollars.

Like past conferences, several keynote speakers will address the audience. This year’s speakers are businesswoman Debra Crumpton, nuclear scientist Darleane Hoffman, astrophysicist Jill Cornell Tarter, San Diego State University Professor Shirley Weber, assistant attorney general Lois Schiffer, and medical reporter Dr. Kim Mulvihill.

The women’s conference will also feature a variety of focus groups and a poster session. The poster session is the main venue for communicating scientific, technical and administrative ideas and accomplishments made by women working in and defining the frontiers of those areas. Directorates, programs, centers and individuals may present information as a poster, multimedia display or real-time interaction. The conference organizers plan to give attendees a broad overview of the work and visions at the Bay Area DOE laboratories.

This year the poster session will be in a room where the submissions may be set up before the start of the conference. Two times are scheduled for viewing the displays, one on Thursday afternoon and the other on Friday morning, but the room will be open for the duration of the conference.

There will also be an exhibition to present resources for employee, career and personal development. One of the highlights this year will be a mini-job fair where conference attendees may get information on current postings, hot skills areas and networking contacts.

Session submissions may be processed from the “poster session” option of the conference Web page, <http://www.llnl.gov/2020/>. Deadline for submission of an abstract is Sept. 29. LLNL employees providing material for the abstract and at the conference must follow guidelines for review and release for a public conference or be administrative information only.

For more information or to register, see <http://www.llnl.gov/2020> by Sept. 29. The LTRAIN code for registration is OE0122.

INTERNAL TRANSFER OPPORTUNITIES

Requisition	Classification	Title	Organization
758	200	AD, energy & environment	Director's Office
912	200	Scientist	Energy
886	200	Scientist	NAI
9536	225	Biomedical scientist	Biology & Biotechnology Research
842	249	Engineer	Electronics Engineering
893	249	Engineer	Electronics Engineering
864	249	Engineer	Mechanical Engineering
865	249	Engineer	Mechanical Engineering
892	249	Mechanical engineer	Mechanical Engineering
895	270	Physicist	Physics
907	285	Computer scientist	Computer Applications Organization
908	285	Computer scientist	Computer Applications Organization
909	285	Computer scientist	Computer Applications Organization
913	390.1	Supervisor	Electronics Engineering
821	391.1	NMTP superintendent	Chemistry & Materials Science
847	405.3	Secretary	Defense& Nuclear Technologies
890	405.3	Administrative specialist III	Energy
830	405.3	Administrative specialist III	Electronics Engineering
861	405.3	Administrative specialist III	Electronics Engineering
563	405.3	Administrative specialist III	Plant Engineering
914	405.4	Administrative specialist IV	Electronics Engineering
755	405.4	Administrative specialist IV	Human Resources
888	405.4	Administrative specialist IV	NAI
889	405.4	Administrative specialist IV	NAI
882	538.1	Coordinator	Mechanical Engineering

More information on these job postings as well as those at other UC sites and outside organizations is available through the World Wide Web. Go to the Lab's internal home page, click on “Services,” then click on “Career Center.” Once there, scroll down to “Information and Resources,” where links to internal and external postings can be found.

Technical Meeting Calendar

Friday
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INSTITUTE FOR GEOPHYSICS & PLANETARY PHYSICS
“Chandra, the X-Ray Background and Black Holes,” by Richard Mushotzky, NASA/GFSFC. Noon, Bldg. 319, room 205 (open area). Contact: Joanna Allen, allen64@llnl.gov.

INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH
“Visualizing Multidimensional Geometry With Applications to Multivariate Problems,” by Alfred Inselberg, San Diego Supercomputer Center. 9 a.m., Bldg. 451, room 1025 (uncleared area). Contacts: Roy Kamimura, 3-5744, or Leslie Bills, 3-8927.

MATERIALS SCIENCE & TECHNOLOGY
“Materials Experiments at High Pressure and Strain Rate Using Intense Lasers,” by Dan Kalantar. 3:30 p.m., Bldg. 235, room 1090 (uncleared area). Coffee and cookies will be served at 3:20 p.m. Contact: Thomas E. Felter, 2-8012.

DEPARTMENT OF APPLIED SCIENCE
“PDE-Based Nonlinear Image Filters,” by Danny Barash, Hewlett-Packard Laboratories. 10 a.m.,

Bldg. 661, room 13. Contact: Daniel White, 2-9870 or dwhite@llnl.gov.

Wednesday
27

INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH
“An Implicit, Nonlinear Newton-Krylov Resistive MHD Solver,” by Luis Chacon, Los Alamos National Laboratory. 10 a.m., Bldg. 451, room 1025 (uncleared area). Contacts: Carol Woodward, 4-6013, or Leslie Bills, 3-8927.

INFORMATION SCIENCE & TECHNOLOGY
“Radiation Hardened Nano-Pixel Vidicon,” by Donald P. Hutchinson, Oak Ridge National Laboratory 1 p.m., Bldg. 481 auditorium. Contact: Bernice Wootton, 3-8578.

Thursday
28

NEVADA TEST OPERATIONS & DEFENSE TECHNOLOGIES
Forging seminar, by Tom Schwingbeck Jr., and Bill Hood, Scot Forge. 9 a.m., Bldg. 543 auditorium (uncleared area). Contact: Pat Gennaro, gennaro1@llnl.gov.

INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH
“Algebraic Multigrid in an Industrial Environment,” Klaus Stueben, GMD-Forschungszentrum

Informationstechnik GmbH. 10 a.m., Bldg. 451, room 1025 (uncleared area). Contacts: Van Henson, 3-4283, or Leslie Bills, 3-8927.

INSITUTE FOR LASER SCIENCE & APPLICATIONS
“Astrophysics with Intense Lasers,” by Jave Kane. 10:30 a.m., Bldg. 219, room 163 (open area). Contact: Jim Dunn, 3-1557.

Friday
29

INSTITUTE FOR GEOPHYSICS & PLANETARY PHYSICS
“The Detection of Terrestrial Extra-Solar Planets via Gravitational Microlensing From Space,” by David Bennett, University of Notre Dame. Noon, Bldg 319, room 205 (open area). Contact: Joanna Allen, allen64@llnl.gov.

INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH
“Multigrid Methods for Porous Media Flows,” by Gabriel Wittum, Universitat Heidelberg. 10 a.m., Bldg. 451, room 1025 (uncleared area). Contacts: Rob Falgout, 2-4377, or Leslie Bills, 3-8927.

Deadline for the next calendar is noon, Wednesday, Sept. 27.



NEWS OF NOTE

Commuter Fair adds fuel to ridesharing alternatives

In conjunction with California Rideshare Week Oct. 2-6, the Lab is hosting a Commuter Fair on Wednesday, Oct. 4, from 11:30 a.m. to 1:15 p.m. outside the South Cafeteria.

Sponsored by the Transportation Systems Management Program and the Public Affairs office's External Relations, the fair will feature displays by a number of outside agencies, including Rides for Bay Area Commuters, Inc., VPSI Vanpools, Enterprise Vanpools, San Joaquin Regional Transit (SMART), Tri-Delta Transit, BART, ACE, a transportation engineer from the City of Livermore, Commute Connection, and a Spare the Air coordinator from Sandia.

Employees who drive solo to work are encouraged to check out the alternatives avail-

able at the fair.

"Over the last year, we have added several dynamic incentive programs for commuters, including the Guaranteed Ride Home Program, Pretax Transit & Vanpool Program, a new Tri-Delta bus service from East Contra Costa County, free passes on SMART & Tri-Delta buses, free BART and Wheels tickets for new employees, and a new Vanpool Incentive Program that we will be unveiling next week," said D'Anne Miller, program manager for the Transportation Systems Management program.

"During the same period of time, the price of gas has gone way up. We have a commute calculator that can show employees how much they are spending monthly on their commute and how

much they can save. We'll have information on all of the incentives and alternative commute programs at the fair," she said.

Lab employees are encouraged to try a commute alternative at least once during the week of Oct. 2-6, Miller said. Those who pledge to try an alternative means of transportation will be eligible to win prizes from Rides, for Bay Area Commuters, Inc. by registering now at www.rides.org/rsw00/index.shtml

As part of the fair, the South Cafeteria will feature a "commuter special" hotdog combo.

On display at the fair will be the new Tri-Delta Transit bus which has stereo and video equipment for passengers, as well as a deluxe vanpool and a compressed natural gas powered vehicle.



intage vehicles pull into Lab



Last week, the Lab's weekend mechanics showed off the fruits of their labor at the annual LLESA Vintage Vehicle Show in the form of street rods, muscle machines, classic cars and even a few motorcycles. There was also time to take in a few four-legged creations during a special animal rescue/adoption.



Photos by Joseph Martinez/TID





Check out the Employee Ads Web Services site at:
<https://www-ais.llnl.gov/newsline/ads/>

AUTOMOBILES

1986 - Nissan Sentra, newer engine, needs paint. Runs good. First \$950. and its yours. Call after 6:00 p.m. 209-892-6186

1996 - Dodge Grand Caravan - middle seat w/built-in child seats, multi-colored gray material. Excellent condition. \$150 925-833-2754

1987 - LINCOLN MKVII,very good condition,110K,all options \$3000 209-869-2792

1988 - Jeep Cherokee 4 wheel drive, runs good, used to commute from Lodi. \$4300/BO 209-369-4188

1997 - Mustang GT V8, 35K miles, alarm, spoiler, new tires, front-end cover, 6/60 warranty, power everything, AC, car cover, exceptionally clean. \$15,500. 925-443-1547

1994 - Buick Park Avenue, all power, A/C, good condition in and out, call for more details. Ask240-0607

1987 - Toyota Tercel, 132K miles, Stick shift, reliable, runs great, \$800 OBO. Leave message, will call back. 650-424-1202

1991 - DODGE shadow es convertible 2D - AC/PS/CC/Pwind/Pdlocks/AM/FM/Cass/TiltWheel/All owWheels - \$3,595 OBO...runs greaT! 209-833-7573

1998 - GMC Sonoma- power locks, windows and mirrors. Tilt, cruise, antilock, ac, am-fm cassette, two tone, liner, alloys, brand new tires, v6, 40,000 miles- \$12,500.00 925-447-1410

1997 - Geo Metro, only 25,000 miles, stereo/cassette, manual transmission, excellent condition, \$4,500. 925-371-5528

1992 - Ford T-Bird LX with all the LX extras. Good condition. 67,500 mi. \$5,100. 925-830-0637

1993 - Pontiac Grand Prix. A/C, cruise, AM/FM/Cassette. Excellent condition. \$5500 925-485-1988

1998 - Toyota Corolla, AT, AC, AM/FM cass, 63K, sanddrift color, PS, tilt, \$9K. 925-961-1089

1990 - Dodge Grand Caravan, 123k, runs excellent, no probs, very clean, loaded, cd player, ignition disable alarm, running boards, trailer hitch. \$5000 209-838-1883

1987 - Buick Centry 8 cylinder approx 140,00 miles needs so work Best offer over \$500. 925-833-2527

1967 - Mercury Cougar, 2 door, yellow w/black interior, automatic, AM/FM cassette, 289 engine. Good Condition. \$2,300/BO 925-373-1067

AUTOMOBILE ACCESSORIES

ALUMINUM Camper shell, Fits short bed step side truck, nice shape, \$175 209-832-8723

14 inch TIRES: 205/75/R14 good used TIRES fit many cars/pickups 2 for \$20, all 4 for \$30 925-447-7070

Fiberglass camper-shell and carpet kit (brown), fits step-side Chevy, like new \$300.00 for both. 925-447-5746

1998 Honda Civic EX (4) Stock Rims, Hub Caps, w/Firestone P185/65 R14 Tires. Very little wear. \$200 925-462-4927

US Indy Mags, similar to Ansen Sprints, 14 x 7 inch, with good Dunlop P235-60R tires, fits 49-80 Ford and Chrysler products, \$200. 925-447-2131

BICYCLES

BMX bicycle, Diamondback Joker 1

year old, good condition \$175.00 925-455-5131

BOATS

Hartley TS16, Sail Boat, trailer, motor, and all the gear. \$1250.00 925-462-6246

CAMERAS

MAMIYA C330 with three lens, and more \$650. firm. Some darkroom equipment, timer, sink and more. Call after 5:00 p.m. 209-892-6186

ELECTRONIC EQUIPMENT

Mac Ilci 80mb, 33.6 modem, CD & Zip drives. 13 in. color monitor. Printer. Various manuals & software. \$150/offer 209-823-5085

AIWA NSX-V2100 Portable 3 CD changer, 2 tape decks, AM/FM player with headphones, 2 detachable speakers, 12 in. tall \$80 925-447-5434

Epson 740i printer. Available because I upgraded. Used for 1 month. \$25. 510-226-7440

Yeast ft-470 dual band handie-talkie. 2 meter/ 70 cm. Great condition, with accessories. \$140.00 925-381-0736

GIVEAWAY

Chairs - 3 available (2 match), Uhaul, good for playroom or college student 925-449-6048

Entertainment center; holds large TV, stereo, books. 4ix4.5i. Oak finish. 925-449-6334

HOUSEHOLD

Freezer, white, looks and runs great. \$150.00 925-833-2527

REFRIGERATOR. Large Wards Side by Side, approx. 24 cu. ft. Good Working Condition. Does not have automatic water and ice features. \$200 firm 209-832-8723

CARDBOARD BOXES, STURDY moving/storage: Big and Bigger: 40 for \$50, Huge: \$2, Wardrobes: \$6 925-447-7070

2 Queen beds & frames, dressers, Sectional sofa/sleeper, Kenmore 16cuft freezer, glass display cases. 209-839-1333

FISHER Free standing wood stove in exl condition. Will heat up to 1600sq ft.\$350 C09-869-2792

Wedding dress & petticoat size 3. Needs cleaning. \$50/offer. Suede formal, off shoulder size 8. \$30/offer. 209-823-5085

Garage Sale - Sat. 9/23 8am-2pm. Baby/Kids Stuff, car-seats, scooters, bikes, game-table, books, Barbie, household. 2615 Campeche Ct, San Ramon 925-275-9434

Walnut dresser w/large mirror, long, 6 drawers, beautiful, \$100. Also Computer desk, large, dark red wood \$85 AND Oak wine bar/rack, 24 bottle \$65 925-447-5434

Electric Cooktop. JenAir Style. Exhaust fan included. \$25. 510-226-7440

Aluminum folding walker, Invacare, adjustable, like new, more stable than a cane, \$29. 925-829-2581

Dryers - 1 electric, almond (\$75) and 1 gas, avacado (\$50) 925-443-5565

Blue/white sofa and lovechair \$750; computer desk, file drawer, leather office chair \$100; household appliances. 2 yrs old, excellent condition. 925-371-5528

Rainbow canister vacuum cleaner. Second or third generation?

\$100.00 925-961-1089

HIDE-A-BED, floral upholstery, good condition. \$75/B.O. Two DESKS, white. One corner desk; one small 3-drawer desk. \$25 ea./\$40 both/B.O. 925-447-2905

GARAGE SALE SATURDAY Sept 23, 8:00-2:00. 5127 Charlotte Way. Tons of baby stuff, also dishes, furniture, books, games, womens clothing. 925-960-1317

Maytag portable dishwasher. Can be converted to built in. Like new. Used less than 1 year. \$300 obo. Manteca 209-825-5489

LOST & FOUND

Point of Light pin lost 9/14 around the blds of 381,482,551,or 439. Very Sentimental. Pls call if found 925-449-6113

MISCELLANEOUS

Pokemon Cards--200 different types of cards, all in great condition, 50 rare cards, \$40. 925-443-8889

Firewood, approx. 2 cords, some maple, some pine, some eucalyptus, some cherry. Cut and dried, \$75.00 you haul 925-443-4895

Yardsale. Sunday 9/24 ONLY. 8 a.m. to early afternoon. 808 Buckingham Dr. Manteca Take Lathrop Rd. to Sherwood Ave. to Buckingham Dr. 209-825-5489

Firewood, walnut and almond, some good, some not so good. Maybe one cord or less. \$10 for all. You pick up. 925-447-0428

4 tickets, Raiders vs. Browns, 9-24, good seats, Sec. 227, row 4. \$60/ea. 925-468-0936

GAS GRILL, small 15 in. kettle, Charbroil Patio Caddie Propane BBQ, easy to clean/use, large NEW propane tank \$95 925-447-5434

Quad Roller Skates, Suede Leather, Mens Sz 10-1/2 \$25, Wire Rabbit Cage 2ft X 2ft X 18in \$15, Universal Bike Rack \$25 925-552-6684

Aluminum folding walker, Invacare, adjustable, like new, \$29. 925-829-2581

Weber barbecue \$15, redwood lattice 4ft x 8ft 3 for \$15 wooden shutters new 4 for \$30 925-371-1465

Free large metal swing set. You haul 925-443-3854

Celestron 8 SCT telescope. very good optics very good condition. many extras. \$1200 925-449-1986

GARAGE SALE - Sat., 9/16, 8am-3pm @ 4400 Blanc Ct., Oakley. Many household items, toys, clothes, etc. Our trash is your treasure! Come & check it out. 925-625-1589

GRACO Neat Seat High Chair, New \$50, Sell \$25.00; Graco Entertainer, New \$65, Sell \$25; Fisher Price Swing, New \$20, Sell \$8. All GREAT Condition! 925-373-0751

MOTORCYCLES

1976 - Honda Goldwing 1000, New Tires & Windshield. Runs Great! Garaged, In Excellent Condition! 39K \$2200.00 Call after 6pm 209-293-4503

MUSIC INSTRUMENTS

Piano, Baby Grand, old, Chicago Haynes, needs work \$2000 evenings 209-835-4197

Looking for GUITARIST to jam with at lunchtime. Ca5-634-3638

PETS & SUPPLIES

Jack Russell Terriers looking for new home, stay together if possible, 1 male, 4 yrs. 1 Female, 3 yrs. Call for details. 925-833-2527

Labs, choc & black, AKC, 7 wks, 1st shots, \$275. 209-833-7213

Saddle, McPhearson, Calif Roper 16in seat in good condition \$400 209-869-2792

Portable (4x8 cyclone fence) dog run \$250.00 firm. 925-447-5746

Free Kittens to good home! 925-447-4119

RECREATION EQUIPMENT

Scuba gear: weights \$1 ea. Cressi-sub fins, \$25. Small BC almost new, \$50. Lift bag \$10. Soft pack weight belt, 16 pounds. \$20. Call after 9/27. 925-292-1124

Swing set, good condition you disassemble and haul (easy to assemble)\$35.00 925-443-4895

Exped tent & pk: Kaja 4season/2person tent. Very light (list 550) Like New: \$290. Dana Terraplane XL internal frame pk (list 440) Very good: \$165. 925-454-9767

Weight set, Olympic bench with incline, decline, 305lbs of weights, leg extension, preacher curl attachments. \$200.00 209-744-8470

GO-PED (Sport Model) almost new \$300.00. 925-447-5746

Sparring gear, one adult set with bag, and one child set with bag. New, \$50.00 each. 925-778-2699

RIDESHARING

Express your commute, call 2-RIDE for more information or visit the web site at <http://www-r.llnl.gov/tsmp/> for more information

Pleasant Hill, Walnut Creek- Lavana Vanpool. 14 passenger, reclining seats, reading lights, 8 to 4:45, Bargain Rate (925) 945-4926, 2-2805

Fremont - Commuter blues? Join van and save pretax dollars too. Work schedule 8am-445pm.510-792-7848, ext. 4-3791

Richmond - Van operating from Richmond through El Cerrito, Albany, Berkeley and Oakland with stops on Hwy 13; 7:45-4:30 510-223-4244, ext. 2-3193

East Contra Costa - Deluxe commuter buses from Antioch, Oakley, Brentwood & Byron provide service to the 7:00 a.m. and 8:00 a.m. shifts. 925-754-6622, ext. 2-7433

Ceres/Modesto - 14 psgr Enterprise luxury vanpool, 7:00-3:30 209-537-0229, ext. 3-6631

San Jose & Fremont Mission - Space is available from San Jose and Fremont-Mission areas. Work hours:7:30 4:30. 408-238-1909, ext. 3-3057

Modesto - 14 Passenger commuter van. Approx. 8 - 4:30 work schedule. Pretax reduction helps lower commuting cost. 209-521-9047, ext. 2-5177

San Mateo - Riders needed for the 14 passenger van. Van has AC, reading light and capt. chairs. 650-341-5795, ext. 3-7857

Lafayette - LaMoRinda (and Walnut Creek at Rudgear Rd) Vanpool. Luxury van (reclining seats, reading lights) 8-4:45, \$115/mo (pretax reduction available) 925-376-5376, ext. 2-3005

SERVICES

Attention Retirees! Set your own

hrs. Extra income. Compact vending machines from prvt. women owned bus. \$4,900.00 after 6pm wkdys. 209-545-3889

Roofing, 28 yrs experience, fully insured 925-454-9200

TUTORING in high school and college chemistry and math. 925-443-2095

PARENTS troubled by TEEN behavior? What to do now, before too late? Free info on ToughLove, & Residential Treatment Facilities. (LLNL Meeting) 925-447-7070

Hauling Service. Estate cleanouts, Attics, Garage, Shed & Barns. Misc. 925-373-9540

Handyman Service, sprinkler installation and repairs, plumbing, drains and sewer roter, rain gutters installed, repaired and cleaned, hauling etc. 925-373-3465

Enjoy Shiatsu Massage, fully clothed-no oils. Discounted 30% while doing my CMT training. Tri-Valley area. 510-791-8623

Catering by Paul. Professional caterer of 10 years. Available for Barbeques, Banquets & Weddings. Affordable Rates! 209-814-9377. 209-832-8587

Windshield chip and minor crack repair. 209-234-1577

SHARED HOUSING

Livermore - Room w/own bath in clean new home near Lab, freeway, shopping. House, yard, laundry privileges. N/S N/P \$550 includes utilities. 925-449-8034

San Ramon - Room for Rent, \$500 includes utilities. Active family household, must like pets. Great 20 minute commute. 925-833-2527

Livermore - Room for rent 1.5 miles from Lab. Beautiful environment. \$600./mo includes utilities. 925-455-4241

TRUCKS & TRAILERS

1984 - Trailer, Road Ranger,Refrigerator, Heater, Air Conditioner, Spare Tire, sleeps four, etc., \$4,495 925-447-6819

1988 - Ford F250 Heavy Duty XL 4WD extended cab 5.8L auto, \$8900. 925-455-8609

1983 - Chevy one ton, Silverado, 4-WD, 4-door dually, lg bed w/liner, PS, PB, AC, alloy wheels, cruise, tilt, sliding rear window, 42K miles. \$7,500 OBO. 925-462-4328

1979 - GMC Heavy 3/4T PU. 350-4 sp tow package. Needswork, Burnt exh valve \$700 209-869-2792

1996 - 29 foot Sea Breeze motorhome for sale. Has TV, roof air, AC generator, awning, HWM levelers. Well maintained, clean unit. Price \$37,000. 925-447-5016

1982 - 4x6 Utility trailer, \$125 925-443-4413

1988 - Chevy 1 ton, Silverado, 4-dr. dually. Pwr win, door locks, cruise, tilt, 52K miles, new A/C. Excellent cond. \$11,500.00/OBO. 925-456-3010

1995 - Motorhome Thor Residency 36 feet, 230 Diesel cummins, 12K miles, NADA appraisal with options \$86,745. Tow package. \$77,700. 925-449-0430

1973 - Older 9 foot Wilderness cab-over camper. Needs some work or use for parts.\$250 209-239-2737

1993 - Jeep Wrangler, Black brand new tires, new clutch. \$7,000. Never off road. 925-833-2527

1958 - Dodge D100 V-8 1/2T PU 33K original miles VERY CLEAN

DIRECTOR’S OFFICE

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tional computer-security activities has increased from \$1.3 million in FY1998 to \$18.4 million this year. Much of this work has provided genuine improvements in computer-security protections: better fire-walls and intrusion detection, better training and awareness, a review of how we implement our “need-to-know” policy, and better protection of our classified systems. The fact that all LLNL employees are more aware of the threats to our computer-security is an important byproduct of these efforts.

Computer security policies are an integral part of the security architecture. The recent re-organization of the Computer Security Program at LLNL put into effect a formal process for proposing and approving security policies.

Policy approval process

The Computer Security Operations (CSO) organization directs the drafting of new computer security policies and the revision of existing ones. The Information Architecture Security Task Force, the Organization Information System Security Officers (OISSOs), and the Computer Security Working Group review drafts of new and revised policies. The members of these groups serve as communication conduits into Lab programs. Through this review process, these groups assess the implementation impact of proposed policies and how well the policy will meet the intended objectives.

After approval by the Computer Security Working Group, the CIO takes the proposed policy to the Computer Security Council (CSC), which is composed of Laboratory associate directors. Once approved by the CSC, the draft policy becomes official LLNL policy.

We have now reached the point where significant new policies are beginning to emerge from this process that will have major long-term impacts on the way we work every day. Starting with this announcement, you can expect a continuous stream of policies, both new and revised ones, over the next twelve months.

Two new policies

Today, I am announcing two new Laboratory policies. The details of these are available on the Web at <http://www-r.llnl.gov/cso/Pubs/pub-home2.html>. Here is a synopsis of these two new policies.

- **Policy 2022: Baseline Unclassified System**

Management and Configuration — The security architecture (IA-0401) defines a layered system of basic protections to ensure the confidentiality, availability, and integrity needed for each LLNL system and the information it contains. Policy 2022 defines the minimum-security configuration requirements for each system. LLNL is developing computer system management and configuration standards that will provide institutionally risk-accepted ways of meeting the requirements of this policy.

- To comply, each system must:
- Have an identified “responsible manager.”
 - Have an identified “responsible system administrator.”
 - Display a login banner reminding the user of the responsibilities associated with using an LLNL computer (as described in CIAC Bulletin J-043).

Each system attached to institutional networks must also:

- Be configured according to an institutional- or organization-defined security standard.
- Maintain a record of all accesses and other security-related events for at least 60 days, where technically feasible.
- Comply with other Laboratory policies: P-2015 (LLNL’s Vulnerability scanning program) and P-2019 (LLNL device registration requirements).

Responsibility to implement this policy is shared by the responsible manager, the responsible system administrator, and anyone who installs software or modifies the security configuration of a system.

• **Policy 4011: Vulnerability Assessment and Remediation Program for Classified Systems and Networks** — This policy addresses the threat of an authorized user of one system breaking into one or more classified Laboratory computers to which the user is not authorized, and then using commonly known attack methodologies that exploit operating system flaws and improper system configurations.

All classified computer systems that are covered by this policy are subject to the LLNL vulnerability-scanning program. This policy also gives each directorate 20 days to remediate any vulnerabilities found during these scans. If not corrected in this time frame, the system will be removed from the network. It also requires that scan data be retained for at least three years for audit and evaluation purposes. Computer Security Operations (CSO) will centrally administer vulnerability scanning of the systems connected to

LLNL’s Closed LabNet. Other stand-alone systems and networks will be scanned by the appropriate Information System Security Officers (ISSOs).

More new policies coming

- Several draft policies are now either being written or being reviewed, including:
- Unclassified Computer Security Policy Management Plan.
 - Incidental Personal Use of Unclassified Information Technology Resources.
 - Use of Non-DOE Computers at LLNL.
 - Protecting Unclassified End Systems Against Viruses and Malicious Code.

The goal: “best in class”

LLNL’s three-to-five-year goal is to be viewed as “best In class” in our security protection capability. There are two reasons why we should not have a lesser goal in this area: first, the information we have to protect is vital to our national security; and second, this information must be protected for decades — maybe forever.

As a result, DOE’s national-security laboratories must be held to a higher standard than other types of facilities. We must have the very best protection in place — a balanced and effective security program across all the security disciplines.

Given the importance of our mission, being “best in class” means something else as well: The functionality that we have to perform classified and unclassified computing must also be “best in class.” Our users should be provided the best and most appropriate tools and computing capabilities. Our security protections must enable our people to do the world-class science and engineering that is our mission.

You will hear more

You will be hearing more about these and other computer-security policies. *Newsline* will continue to run a regular column, called “CIO Update,” that will provide the latest information on computer-security issues; announce new DOE Orders, IA standards and LLNL policies; and report to you the impacts of these developments on your working life. This regular feature will also direct you to training and support information.

David Cooper is associate director for Computation as well as LLNL’s chief information officer.

VACATION RENTALS

SOUTH LAKE TAHOE - 3 Bedroom 2 Bath Chalet, nicely furnished,quiet area , all amenities,Homeowners park with lake,etc. Great for Vacation!Hurry for Summer! 209-599-4644

Maui, HI - Kahana Reef oceanfront 1BR/1BA condominium. Beautiful two-island view, oceanside pool, and BBQs. Low LLNL rates for year-round reservations. 925-449-0761

Palm Springs - --luxury hotel resort, furnished 2-bed apartment with full kitchen. 7 nights for Thanksgiving week (11/19/00 to 11/25/00). \$128/night. 2-5630, 925-606-5660

WANTED

Sitter needed in Tracy in the a.m.

no dents and runs great. \$3,000 OBO. Must Sell. 925-648-1930

1994 - Isuzu Rodeo LS, 4-Door SUV, 2WD, AT, AC, AM/FM Cassette, Power Windows/door locks, Moon Roof. Approx. 86K miles. Excellent Condition. \$9500.00 925-778-5231

12 ft Cab over Camper. Side access-self contained \$575.00 OBO Call after 6pm 209-293-4503

for 2 kids, 8 and 11. Arrive 5:30 a.m., at 7:50 take kids to school, M-F. Will pay \$75 wk, negotiable. 209-832-5042 or 510-486-5537.

Music stand for a young aspiring musician. One that folds up is preferred. 925-484-4099

Large back yard climbing structure in very good condition. Want tall fort, slide, climber, swing combination. 925-426-6872

whirlpool or kenmore gas dryer. 925-443-5565

Wanted some one to farm oat hay on my 40 acres in Livermore 925-371-1465

Wanted: Someone to haul away broken concrete and yard debris. Will pay reasonable rate. 925-513-1411

Finish Carpenter to install ceiling staircase, wood trim on windows, etc. Will pay reasonable fee. Livermore location. 510-713-9873

WANTED: old bikes and riding toys. 1970s or older 925-449-0388

File cabinets, 4 or 5 drawer standard width, prefer rugged old ones in good condition. No repositories need apply! 510-728-4336

1998 Mercedes SLK 230 in excellent condition. 925-648-0671

Wanted child sitter for twin 13 year

old boys when I am on business travel, or working the evening shift. Needed occasionally. 925-455-5624

Car carrier trailer for weekend of nov. 4-5 to rent. 408-253-1520

Family of 4 looking for long-term rental housing in Livermore. Desire 3/4 bdr., 2 bath, reasonable rent. P925-443-5917

16 foot canoe wanted. Good stable canoe for general family use. Will pay reasonable price. . 209-835-3782

Small refrigerator and/or freezer for evening project at LLNL. (x2-7281) 925-462-6237

Books, CDs and videos for book-sale to raise money for Xmas gifts for needy kids. Next sale at the Lab starting 10/9/00. 925-456-6725

Need a Tutor to help with Pre-Algebra. I am willing to meet 1 or 2 time per week during lunch or after work or weekends. 209-832-2060

Part-time Nanny needed 2-3 days a week for two boys ages 7 months and 2 years. Non-smoker. fax resume with refs 925-373-7878

Wanted-Refrigerator, washer and dryer. Looking for good condition at reasonable price. 925-609-8313

Wanted: 49er tickets -- Would real-

ly like two tickets to the 10/8 49er vs. Oakland game. 209-839-0416

Camper shell for 88 Toyota long bed needed. Red or white color

perf. 925-449-3776

House/duplex to rent in Dublin, Livermore, Pleasanton. 2/bd1/ba pets reaso. rent. 925-484-5397

Guidelines

Newsline is not responsible for any errors contained in the classified ads. It is up to the employee to proofread his or her ad to make sure it contains the correct data, including the phone number.

Employees are reminded that only car- and vanpool ads may contain Lab extensions. E-mail addresses are not allowed.

Due to space limitations, *Newsline* cannot run ads that are submitted in all capital letters. “Personals” ads are not permitted either.

Employees may submit one ad per category, but may not include the same ad in more than one category.

Ads may only be submitted through the Employee Ads Web Services site <https://www-ais.llnl.gov/newsline/ads/>



THE BACK PAGE

ISM

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respect to ISM. I congratulate you.” “We are very pleased with the DOE team’s conclusion,” said Director Bruce Tarter. “Implementing ISM and preparing for verification required a true Labwide effort. Hundreds of people dedicated themselves to our success. I want to congratulate all Lab employees for what we have accomplished together.”

In presenting the team’s findings, Winter pointed out that three noteworthy practices were found in the Lab’s ISM program, as well as three opportunities for improvement.

One noteworthy practice has to do with what the team described as the “maturation of the Integration Work Sheet (IWS) process.” It said this has led to an increased understanding and acceptance of roles and responsibilities for safety among Laboratory management and workers.

A second noteworthy practice is the use of peer reviews of explosives activities. This process, the team said, provides for an activity-specific review of hazards and controls by the worker, line manager, safety and health professional, and requester. It also provides a record of process changes and lessons learned for use in evaluating future activities.

The team described the third noteworthy practice as follows: “ES&H teams continue to be a valuable element of the Laboratory’s ISM system. In addition, ES&H professionals on directorate staffs serve to further integrate

ES&H expertise into programmatic work.” The IWS was also cited under opportunities for improvement. The team said additional improvements to the IWS form, IWS training, and IWS use related to environmental hazards and controls would improve ISM implementation.

Another opportunity for improvement relates to the Process Hazard Analyses for explosives processing and test areas at Site 300. The team said results of the analyses should be communicated to the worker and corrective actions implemented in a timely manner.

Finally, the team recommended that all issues raised by the Safety Basis Document Update Project be addressed. This is the project designed to be surer safety plans for all Laboratory general industry facilities are current.

The next step for the Laboratory is to continue to strengthen its ISM program, said Den Fisher, associate deputy director for Operations, and head of the ISM Rollout Implementation Team. He said the Lab would start addressing the opportunities for improvement and solidifying the ES&H enhancements that have been put into place as a result of the ISM implementation.

“We have made significant gains over the past two years,” Fisher said, in commenting on the Lab’s ISM program. “Our DOE safety cost index has gone down from over 30 in 1997 to 13 right now. We are getting close to our goal of being under 10 in 2001.”

“ISM implementation will be a steady-state effort at the Lab—not a one-time event,” said Kuckuck, underscoring Fisher’s statement.

“Our short-term goal was to achieve verification. But our long-term goal is what we are focusing on now — becoming the safest workplace possible for all our employees.”

Kuckuck added that implementation of ISMS has been the most intensive and substantial Labwide effort he has seen in his 37-year career at Livermore.

“The experience of implementation and getting ready for verification has been positive and remarkable,” Kuckuck said. “But it has also been taxing to get us to this point. I want to thank all Lab employees for their effort.”

The successful verification process began last November. At that time, a DOE team reviewed Lab ES&H documentation and interviewed senior management. The next phase of the process came in May when the verification team focused on implementation in two directorates, Laboratory Site Operations and Engineering, and a series of Laboratory facilities.

The third and final phase of verification started Sept. 11, and has been an intense two-week effort. Handling the project for DOE has been a team comprised of 22 people, including a four-person clerical staff provided by the Lab.

For phase three, the team focused on four directorates including the Biology & Biotechnology Research Programs, Chemistry & Materials Science, Lasers, and Physics. The team also inspected 25 facilities across the Lab and reviewed over 700 ES&H documents. To complete its study, the Team conducted over 200 interviews with employees, ranging from associate directors to programmatic workers.

R&D 100

Continued from page 1

being emitted from the barrel. In order to be more precise, WIT-NDA uses two measurements to determine the radioactive potential of a barrel. The first, Martz said, looks at the attenuation of the barrel’s contents. The second measurement is of the radiation that is being emitted, and more importantly, what part of the barrel it is coming from.

“It’s similar to a medical CT scan, or to tomography,” said Martz of the project. “Using external radiation, we basically take pictures of a thin slice at a time to determine what is in the barrel and a passive measurement to determine the location of the radioactive isotopes.”

Martz and Roberson knew that similar work had been done at Los Alamos, but wanted to make their system more versatile.

“The problem with work done in the past is that people assumed the waste was homogeneous,” Martz said. “We knew it wasn’t, that it was a jumble of waste inside the barrels.”

After testing at LLNL, Bio-Imaging Research, Inc. became interested in the pro-

ject. The technology was transferred to them and installed in a mobile trailer. WIT/NDA was then tested and demonstrated at various DOE sites, where it passed several blind performance tests.

“After we passed the blind tests, we transferred multiple-detector technology to them, and put it in a transportable unit,” Martz said. “That was what helped us win the award — the fact that this technology has been commercialized and works.”

Roberson, the principal investigator on the project, noted that R&D’s new commercialization requirement might be the reason behind fewer Lab winners this year.

In previous years the DOE labs were awarded multiple R&D 100s — the Laboratory alone has received 20 such awards in the last three years.

“The projects have to be a product,” Roberson said. “You have to have proof that it is a product, and that’s a new requirement this year that might have affected the outcome.”

Since winning the award, Martz and Roberson are “completely finished” with the WIT project, which is currently traveling the

country identifying waste hazards with the help of Bio-Imaging staff.

“There are other waste streams this technology can be configured for, so we might help Bio-Imaging with that in the future,” Roberson said. “But we’ve been done for a year, otherwise.”

Roberson also said that the award capped the project nicely for the WIT development team.

“It was a nice culmination, a nice conclusion to the project,” he said. “Winning this award is a great way to recognize everyone who worked on the project over the years.”



SERIES

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token of our appreciation to a community that has supported us over the years,” said Laboratory Community Relations coordinator Lori Taylor. “It is exciting to have scientists working on such fascinating projects come and share their work with us.”

Lectures will take place one Thursday a month at the Livermore High School Performing Arts Theater, which is located at 600 Maple St. They will run through March 2001. All lectures, which are geared toward the general public, begin at 7 p.m. and are free of charge.

Here is the complete schedule of guest lectures:

- Sept. 28 — “Space Technology,” Aprille Ericsson-Jackson, NASA Goddard Space Flight Center.

- Oct. 19 — “Science-Based Decision-Making in the Tahoe Basin,” Charles R. Goldman, professor of Limnology in the Department of Environmental Science, UC Davis.
 - Nov. 16 — “The Origin of the San Francisco Bay,” Kenneth R. Lajoie, retired, U.S. Geological Survey.
 - Jan. 25 — “Unraveling the Human Genome,” Stephen Dilly, vice president of Medical Affairs at Genentech.
 - Feb. 22 — “Magnetic Levitation,” Dick Post, retired Lawrence Livermore physicist.
 - March 29 — “El Nino and Global Climate Change,” Michael McPhaden, senior research scientist for the Pacific Marine Environmental Laboratory in Seattle, Wash.
- For more information about the series or to receive a brochure, call the Public Affairs Office at 2-3138.

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